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EDUCATION

1980	Ph.D.	Economics, Princeton University.
1978	M.A.	Economics, Princeton University.
1976	B.A.	Economics, Haverford College.

PROFESSIONAL EXPERIENCE

1991 – Present	Eminent Scholar, Department of Economics, University of Florida.
2001 – 2002	Chief Economist, Federal Communications Commission.
1989 – 1990	Matherly Professor of Economics, Department of Economics, University of Florida.
1988 – 1989	District Manager, Economics Research Group, Bell Communications Research.
1988 – 1989	Visiting Lecturer with Title of Full Professor, Department of Economics, Princeton University.
1984 – 1989	Member of Technical Staff, Economics Research Group, Bell Communications Research.
1982 – 1986	Assistant Professor, Department of Economics, University of Pennsylvania.
1980 – 1982	Assistant Professor, Department of Economics and Institute of Public Policy Studies, University of Michigan.

ADDITIONAL POSITIONS

1999 – Present	Director, Robert F. Lanzillotti Public Policy Research Center, University of Florida.
2017 – 2019	Affiliate Eminent Scholar, Bob Graham Center for Public Service, University of Florida.
2008 – 2009	President, Industrial Organization Society.

SERVICE ON EDITORIAL BOARDS

1997 – Present	<i>The Rand Journal of Economics</i>	(Associate Editor)
1995 – Present	<i>The Journal of Regulatory Economics</i>	(Associate Editor)
1993 – Present	<i>Journal of Economics and Management Strategy</i>	(Co-Editor)
2009 – Present	<i>The Review of Industrial Organization</i>	(Board of Editors)
2009 – Present	<i>The Review of Network Economics</i>	(Board of Editors)
1992 – Present	<i>Information Economics and Policy</i>	(Board of Editors)
2017 – 2020	<i>The Journal of Economic Perspectives</i>	(Advisory Board)
1983 – 2012	<i>Economics Letters</i>	(Advisory Editor)
2001 – 2006	<i>Journal of Public Policy and Marketing</i>	(Board of Editors)
1996 – 1999	<i>The American Economic Review</i>	(Board of Editors)
1991 – 1994	<i>The Journal of Industrial Economics</i>	(Associate Editor)
1991 – 1994	<i>The Journal of Regulatory Economics</i>	(Board of Editors)
1988 – 1992	<i>The American Economic Review</i>	(Board of Editors)

JOURNAL PUBLICATIONS

“Strategic Firm Behavior Under a Dynamic Regulatory Adjustment Process,” *The Bell Journal of Economics*, Vol. 11(1), Spring 1980, pp. 360-372.

“Precontractual Information Asymmetry Between Principal and Agent: The Continuous Case,” *Economic Letters*, Vol. 5(4), November 1980, pp. 371-375.

“Optimal Regulation of Research and Development Under Imperfect Information,” *The Bell Journal of Economics*, Vol. 13(2), Autumn 1982, pp. 354-368.

“Sustainability, Entry Restrictions, and Induced Technological Bias,” *Quarterly Review of Economics and Business*, Vol. 22(4), Winter 1982, pp. 43-52 (with W. Shepherd).

“Limited Liability Contracts Between Principal and Agent,” *Journal of Economic Theory*, Vol. 29(1), February 1983, pp. 1-21.

“Optimal Regulation of a Multiproduct Monopoly with Unknown Technological Capabilities,” *The Bell Journal of Economics*, Vol. 14(2), Autumn 1983, pp. 453-463.

“Multi-Agent Control in Perfectly Correlated Environments,” *Economics Letters*, Vol. 13(4), November 1983, pp. 325-330 (with J. Demski).

JOURNAL PUBLICATIONS (CONTINUED)

“Optimal Incentive Contracts with Multiple Agents,” *Journal of Economic Theory*, Vol. 33(1), June 1984, pp. 152-171 (with J. Demski).

Reprinted in *Recent Developments in the Economic Theory of Incentives*, edited by D. Martimort. Cheltenham, UK: Edward Elgar Publishing, 2017.

“Incentive Contracting with Asymmetric and Imperfect Precontractual Knowledge,” *Journal of Economic Theory*, Vol. 34(1), October 1984, pp. 52-70.

“To Brand or Not to Brand?: A Theoretical and Empirical Question,” *The Journal of Business*, Vol. 58(3), July 1985, pp. 279-294 (with B. Wernerfelt).

“Line Item Reporting, Factor Acquisition, and Subcontracting,” *The Journal of Accounting Research*, Vol. 24(2), Autumn 1986, pp. 250-269 (with J. Demski).

“On the Timing of Information Release,” *Information Economics and Policy*, Vol. 2(4), December 1986, pp. 307-316 (with J. Demski).

“Commitment to Regulatory Bureaucracy,” *Information Economics and Policy*, Vol. 2(4), December 1986, pp. 243-258.

“Managing Supplier Switching,” *The Rand Journal of Economics*, Vol. 18(1), Spring 1987, pp. 77-97 (with J. Demski and P. Spiller).

“Information, Incentives and Organizational Mode,” *The Quarterly Journal of Economics*, Vol. 102(2), May 1987, pp. 243-263 (with M. Riordan).

“Information and Regulation,” in *Public Regulation: New Perspectives on Institutions and Policies*, E. Bailey (ed.), MIT Press, 1987, pp. 3-43 (with J. Stiglitz).

Reprinted in *Privatization in Developing Countries*, edited by P. Cook and C. Kirkpatrick. Cheltenham, UK: Edward Elgar Publishers, 1999.

“Delegated Expertise,” *Journal of Accounting Research*, Vol. 25(1), Spring 1987, pp. 68-89 (with J. Demski).

“Awarding Monopoly Franchises,” *The American Economic Review*, Vol. 77(3), June 1987, pp. 375-387 (with M. Riordan).

“Privatization, Information, and Incentives,” *Journal of Policy Analysis and Management*, Vol. 6(4), Summer 1987, pp. 567-581 (with J. Stiglitz).

Reprinted in the following works of Edward Elgar Publishers (Cheltenham, England):

(i) E. Bailey and J. Pack, *The Political Economy of Privatization and Deregulation*, 1995;

(ii) D. Parker, *Privatisation and Corporate Performance*, 2001.

(iii) S. Martin, *Market Failure*, 2019.

JOURNAL PUBLICATIONS (CONTINUED)

“Efficient Awards and Standards of Proof in Judicial Proceedings,” *The Rand Journal of Economics*, Vol. 18(2), Summer 1987, pp. 308-315 (with D. Rubinfeld).

“Incentive Schemes with Multiple Agents and Bankruptcy Constraints,” *Journal of Economic Theory*, Vol. 44(1), February 1988, pp. 156-167 (with J. Demski and P. Spiller).

“Regulating Without Cost Information: The Incremental Surplus Subsidy Scheme,” *International Economic Review*, Vol. 29(2), May 1988, pp. 297-306 (with D. Sibley).

“Optimal Contracts with Public *Ex Post* Information,” *Journal of Economic Theory*, Vol. 45(1), June 1988, pp. 189-199 (with M. Riordan).

Reprinted in *The Principal Agent Model: The Economic Theory of Incentives*, edited by J. Laffont. Cheltenham, UK: Edward Elgar Publishers, 2003.

“Commitment in Procurement Contracting,” *The Scandinavian Journal of Economics: Special Issue on Information and Incentives in Organizations*, Vol. 90(3), September 1988, pp. 357-372 (with M. Riordan).

“Profiting from Countervailing Power: An Effect of Government Control,” *International Journal of Industrial Organization*, Vol. 6(3), September 1988, pp. 323-333 (with W.J. Adams).

“Regulating a Monopolist with Unknown Demand and Cost Functions,” *The Rand Journal of Economics*, Vol. 18(3), Autumn 1988, pp. 438-457 (with T. Lewis).

“Regulating a Monopolist with Unknown Demand,” *The American Economic Review*, Vol. 78(5), December 1988, pp. 986-998 (with T. Lewis).

Reprinted in *Critical Ideas in Economics: Economic Regulation*, edited by P. Joskow. Cheltenham, England: Edward Elgar Publishers, 2000.

“Inflexible Rules in Incentive Problems,” *The American Economic Review*, Vol. 79(1), March 1989, pp. 69-84 (with T. Lewis).

“Hierarchical Regulatory Control,” *The Rand Journal of Economics*, Vol. 18(3), Autumn 1987, pp. 369-383 (with J. Demski).

“Hierarchical Structure and Responsibility Accounting,” *The Journal of Accounting Research*, Vol. 27(1), Spring 1989, pp. 40-58 (with J. Demski).

“An Informational Effect When Regulated Firms Enter Unregulated Markets,” *The Journal of Regulatory Economics*, Vol. 1(1), March 1989, pp. 35-46 (with T. Lewis).

“Regulatory Options and Price Cap Regulation,” *The Rand Journal of Economics*, Vol. 20(3), Autumn 1989, pp. 405-416 (with T. Lewis).

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“Renegotiation and Specific Performance,” *Law and Contemporary Problems: Special Issue on The Economics of Contract Law*, Vol. 52(1), Winter 1989, pp. 33-48 (with T. Lewis and M. Perry).

“Countervailing Incentives in Agency Problems,” *Journal of Economic Theory*, Vol. 49(2), December 1989, pp. 294-313 (with T. Lewis).

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“Fully Revealing Income Measurement,” *The Accounting Review*, Vol. 65(2), April 1990, pp. 363-383 (with J. Demski).

“Regulating Without Cost Information: Further Thoughts,” *International Economic Review*, Vol. 31(4), November 1990, pp. 1027-1029 (with D. Sibley).

“Sequential Regulatory Oversight,” *The Journal of Regulatory Economics*, Vol. 2(4), December 1990, pp. 327-348 (with T. Lewis).

“Sharing Productive Knowledge in Internally Financed R&D Contests,” *The Journal of Industrial Economics*, Vol. 39(2), December 1990, pp. 187-208 (with S. Bhattacharya and J. Glazer).

“Incentives in Principal-Agent Relationships,” *The Journal of Economic Perspectives*, Vol. 5(2), Spring 1991, pp. 45-66.

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Also reprinted in *The Theory of the Firm: Critical Perspectives on Business and Management*, edited by N. Foss. London: Routledge Publishers, 2000.

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- “Incentives for Conservation and Quality-Improvement by Public Utilities,” *The American Economic Review*, Vol. 82(5), December 1992, pp. 1321-1340 (with T. Lewis).
- “Regulatory Incentive Policies and Abuse,” *The Journal of Regulatory Economics*, Vol. 5(2), June 1993, pp. 131-141 (with D. Sibley).
- “Sourcing with Unverifiable Performance Information,” *The Journal of Accounting Research*, Vol. 31(1), Spring 1993, pp. 1-20 (with J. Demski).
- “Choosing Workers’ Qualifications: No Experience Necessary?” *International Economic Review*, Vol. 34(3), August 1993, pp. 479-502 (with T. Lewis).
- “Ignorance in Agency Problems,” *Journal of Economic Theory*, Vol. 61(1), October 1993, pp. 169-183 (with T. Lewis).
- “An Incentive Approach to Banking Regulation,” *Journal of Finance*, Vol. 48(4), September 1993, pp. 1523-1542 (with R. Giammarino and T. Lewis).
- “Designing Superior Incentive Regulation: Accounting for All of the Incentives All of the Time,” *Public Utilities Fortnightly*, Vol. 132(4), February 15, 1994, pp. 12-15 (with D. Weisman).
- “Designing Superior Incentive Regulation: Modifying Plans to Preclude Recontracting and Promote Performance,” *Public Utilities Fortnightly*, Vol. 132(5), March 1, 1994, pp. 27-32 (with D. Weisman).
- Reprinted in *Competition and Regulation in Energy Markets*, edited by S. Eyre and M. Pollitt. Cheltenham, England: Edward Elgar Publishing, 2016.
- “Supplying Information to Facilitate Price Discrimination,” *International Economic Review*, Vol. 35(2), May 1994, pp. 309-327 (with T. Lewis).

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“Designing Optional No-Fault Insurance Policies for Health Care Systems,” *Journal of Economics and Management Strategy*, Vol. 3(1), Spring 1994, pp. 113-142.

“Designing Incentive Regulation,” *Review of Industrial Organization*, Vol. 9(3), June 1994, pp. 245-272.

“Toward a Benchmark for Optimal Prudency Policy,” *The Journal of Regulatory Economics*, Vol. 7(2), March 1995, pp. 111-130 (with W. Encinosa).

“Insurance, Adverse Selection, and Cream-Skimming,” *Journal of Economic Theory*, Vol. 65(2), April 1995, pp. 327-358 (with T. Lewis).

“Simple Regulatory Policies in the Presence of Demand and Cost Uncertainty,” *Information Economics and Policy*, Vol. 7(1), April 1995, pp. 57-73 (with B. Blair and T. Lewis).

“Optimal Industrial Targeting with Unknown Learning-By-Doing,” *The Journal of International Economics*, Vol. 38(3/4), May 1995, pp. 275-295 (with E. Dinopoulos and T. Lewis).

“Explaining the Choice Among Regulatory Plans in the U. S. Telecommunications Industry,” *The Journal of Economics and Management Strategy*, Vol. 4(2), Summer 1995, pp. 237-265 (with S. Donald).

“Revisiting the Line-of-Business Restrictions,” *Managerial and Decision Economics*, Vol. 16(4), July-August 1995, pp. 291-300.

Reprinted in *Deregulating Telecommunications: The Baby Bells' Case for Competition*, edited by R. Higgins and P. Rubin. Chichester, England: John Wiley & Sons, 1995.

“Using Markets to Allocate Pollution Permits and Other Scarce Resource Rights Under Limited Information,” *The Journal of Public Economics*, Vol. 57(3), July 1995, pp. 431-455 (with T. Lewis).

“Optimal Capital Structure in Agency Relationships,” *The Rand Journal of Economics*, Vol. 26(3), Autumn 1995, pp. 343-361 (with T. Lewis).

“Revisiting the Conditions for Fully Revealing Disclosure,” *Journal of Business Finance and Accounting*, Vol. 23(3), April 1996, pp. 487-490 (with J. Demski).

“The Effects of Incentive Regulation in the Telecommunications Industry: A Survey,” *The Journal of Regulatory Economics*, Vol. 9(3), May 1996, pp. 269-306 (with D. Kridel and D. Weisman).

Reprinted in *Critical Ideas in Economics: Economic Regulation*, edited by P. Joskow. Cheltenham, England: Edward Elgar Publishers, 2000.

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- “Potential Pitfalls in Empirical Investigations of the Effects of Incentive Regulation Plans in the Telecommunications Industry,” *Information Economics and Policy*, Vol. 8(2), June 1996, pp. 125-140 (with D. Weisman).
- “Revenue Sharing in Incentive Regulation Plans,” *Information Economics and Policy*, Vol. 8(3), September 1996, pp. 229-248 (with D. Weisman).
- “Competition Among Health Maintenance Organizations,” *The Journal of Economics and Management Strategy*, Vol. 6(1), Spring 1997, pp. 129-150 (with W. Encinosa).
- “Penalizing Success in Dynamic Incentive Contracts: No Good Deed Goes Unpunished?” *The Rand Journal of Economics*, Vol. 28(2), Summer 1997, pp. 346-358 (with T. Lewis).
- “Information Management in Incentive Problems,” *The Journal of Political Economy*, Vol. 105(4), August 1997, pp. 796-821 (with T. Lewis).
- “Choosing Among Regulatory Options in the United States Telecommunications Industry,” *The Journal of Regulatory Economics*, Vol. 12(3), November 1997, pp. 227-243 (with S. Donald).
- “Access Pricing with Unregulated Downstream Competition,” *Information Economics and Policy*, Vol. 11(1), March 1999, pp. 73-100 (with T. Lewis).
- “Summarization with Errors: A Perspective on Empirical Investigations of Agency Relationships,” *Management Accounting Research*, Vol. 10(1), March 1999, pp. 21-37 (with J. Demski).
- “Setting the X Factor in Price Cap Regulation Plans,” *The Journal of Regulatory Economics*, Vol. 16(1), July 1999, pp. 5-25 (with J. Bernstein).
- “Employing Decoupling and Deep Pockets to Mitigate Judgment-Proof Problems,” *The International Review of Law and Economics*, Vol. 19(2), June 1999, pp. 275-293 (with T. Lewis).
- “Using Subjective Risk Adjusting to Prevent Patient Dumping in the Health Care Industry,” *The Journal of Economics and Management Strategy*, Vol. 8(3), Fall 1999, pp. 351-382 (with T. Lewis).
- “ACR Reforms to Promote HMO Participation in Medicare + Choice,” *Health Care Financing Review*, Vol. 21(1), Fall 1999, pp. 19-29 (with W. Encinosa).
- “How to Determine the X in $RPI - X$ Regulation: A User's Guide,” *Telecommunications Policy*, Vol. 24(1), February 2000, pp. 63-68 (with J. Bernstein).
- “Contracting With Wealth-Constrained Agents,” *International Economic Review*, Vol. 41(3), August 2000, pp. 743-767 (with T. Lewis).

JOURNAL PUBLICATIONS (CONTINUED)

- “Motivating Wealth-Constrained Actors,” *The American Economic Review*, Vol. 90(4), September 2000, pp. 944-960 (with T. Lewis).
- “Optimal Contracting with Private Knowledge of Wealth and Ability,” *The Review of Economic Studies*, Vol. 68(1), January 2001, pp. 21-44 (with T. Lewis).
- “How Liable Should a Lender Be? The Case of Judgement Proof Firms and Environmental Risk: Comment,” *The American Economic Review*, Vol. 91(3), June 2001, pp. 724-730 (with T. Lewis).
- “The State of Performance-Based Regulation in the U.S. Electric Utility Industry,” *The Electricity Journal*, Vol. 14(8), October 2001, pp. 71-79 (with G. Basheda, P. Hanser, and J. Pfeifenberger).
- “The Impact of State Incentive Regulation on the U.S. Telecommunications Industry,” *The Journal of Regulatory Economics*, Vol. 22(2), September 2002, pp. 133-159 (with C. Ai).
- “Economic Issues at the Federal Communications Commission,” *The Review of Industrial Organization*, Vol. 21(4), December 2002, pp. 337-356 (with E. Kwerel, J. Levy, R. Pepper, D. Stockdale, and J. Williams).
- “Regulating Horizontal Diversification,” *International Journal of Industrial Organization*, Vol. 21(3), March 2003, pp. 291-315.
- “The Federal Communications Commission’s Competition Policy and Marketing’s Information Technology Revolution,” *Journal of Public Policy & Marketing*, Vol. 22(1), Spring 2003, pp. 26-34 (with D. Stockdale).
- “Incentives for Anticompetitive Behavior by Public Enterprises,” *Review of Industrial Organization*, Vol. 22(3), May 2003, pp. 183-206 (with J.G. Sidak).
- “The Effects of Incentive Regulation on Retail Telephone Service Quality in the United States,” *Review of Network Economics*, Vol. 2(4), December 2003, pp. 355-375.
- “Competition Law for State-Owned Enterprises,” *Antitrust Law Journal*, Vol. 71(2), December 2003, pp. 479-523 (with J.G. Sidak).
- “Competition Policy, Parity Regulation, and Self-Sabotage,” *Info*, Vol. 6(1), February 2004, pp. 52-56 (with D. Weisman).
- “Efficient Manipulation in a Repeated Setting,” *Journal of Accounting Research*, Vol. 42(1), March 2004, pp. 31-49 (with J. Demski and H. Frimor).
- “Toward a Synthesis of Models of Regulatory Policy Design with Limited Information,” *The Journal of Regulatory Economics*, Vol. 26(1), July 2004, pp. 5-21 (with M. Armstrong).

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“Incentive Regulation and Telecommunications Service Quality,” *The Journal of Regulatory Economics*, Vol. 26(3), November 2004, pp. 263-285 (with C. Ai and S. Martinez).

“On the Design of Performance Measurement Plans in the Telecommunications Industry,” *Telecommunications Policy*, Vol. 28(11), December 2004, pp. 801-820 (with L. Wood).

“Regulating Service Quality: A Survey,” *The Journal of Regulatory Economics*, Vol. 27(2), March 2005, pp. 123-154.

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“Self Sabotage,” *The Journal of Regulatory Economics*, Vol. 27(2), March 2005, pp. 155-175 (with D. Weisman).

“Privately-Negotiated Input Prices,” *The Journal of Regulatory Economics*, Vol. 27(3), May 2005, pp. 263-280 (with B. Unel).

“Reviewing the Impact of Incentive Regulation on U.S. Telephone Service Quality,” *Utilities Policy*, Vol. 13(3), September 2005, pp. 201-210 (with C. Ai).

“On the Irrelevance of Input Prices for Make-or-Buy Decisions,” *The American Economic Review*, Vol. 95(5), December 2005, pp. 1631-1638.

“Regulation in Vertically-Related Industries: Myths, Facts, and Policy,” *Review of Industrial Organization*, Vol. 28(1), February 2006, pp. 3-16.

“The Effects of Reinsurance in Financing Children’s Health Care,” *Inquiry*, Vol. 43(1), Spring 2006, pp. 23-33 (with S. Aydede, A. Dick, B. Vogel, and E. Shenkman).

“Regulation, Competition, and Liberalization,” *Journal of Economic Literature*, Vol. 44(2), June 2006, pp. 325-366 (with M. Armstrong).

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“Audit Error,” *The Journal of Engineering and Technology Management*, Vol. 23(1-2), March – June, 2006, pp. 4-17 (with J. Demski and H. Frimor).

“On the Design of Input Prices: Can TELRIC Prices Ever be Optimal?” *Information Economics and Policy*, Vol. 18(2), June 2006, pp. 197-215.

“On the Merits of Vertical Divestiture,” *The Review of Industrial Organization*, Vol. 29(3), November 2006, pp. 171-191.

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- “Equity and Adverse Selection with Correlated Costs,” *Economics Letters*, Vol. 95(3), June 2007, pp. 402-407 (with R. Desiraju).
- “Incentives for Sabotage in Vertically-Related Industries,” *The Journal of Regulatory Economics*, Vol. 31(3), June 2007, pp. 235-260 (with D. Mandy).
- “Persistence of High Health Care Expenditures among Children in Medicaid,” *Medical Care Research and Review*, Vol. 64(3), June 2007, pp. 304-330 (with E. Shenkman, C. Knapp, B. Vogel, and D. Schatz).
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- “The Bright Side of Supplier Encroachment,” *Marketing Science*, Vol. 26(5), September-October 2007, pp. 651-659 (with A. Arya and B. Mittendorf).
- “A Note on Optimal Procurement Contracts with Limited Direct Cost Inflation,” *Journal of Economic Theory*, Vol. 137(1), November 2007, pp. 745-753 (with L. Chu).
- “Outsourcing, Vertical Integration, and Price vs. Quantity Competition,” *The International Journal of Industrial Organization*, Vol. 26(1), January 2008, pp. 1-16 (with A. Arya and B. Mittendorf).
- “Does the Quality of Care in Medicaid MCOs Vary with the Form of Physician Compensation?” *Health Economics Letters*, Vol. 17(4), April 2008, pp. 545-550 (with T. Quast and E. Shenkman).
- “Asset Revaluation Regulation with Multiple Information Sources,” *The Accounting Review*, Vol. 83(4), July 2008, pp. 869-891 (with J. Demski and H. Lin).
- “The Make-or-Buy Decision in the Presence of a Rival: Strategic Outsourcing to a Common Supplier,” *Management Science*, Vol. 54(10), October 2008, pp. 1747-1758 (with A. Arya and B. Mittendorf).
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- “Designing Input Prices to Motivate Process Innovation,” *The International Journal of Industrial Organization*, Vol. 27(3), May 2009, pp. 390-402 (with Y. Chen).
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HONORS AND AWARDS:

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|-------------|---|
| 2024 | Distinguished Service Award
Industrial Organization Society. |
| 2017 – 2019 | Term Professorship Award
University of Florida. |
| 2017 | Campbell Watkins 2017 Best Paper Award
<i>The Energy Journal</i> |
| 2015 | Distinguished Member Award
Transportation and Public Utilities Group. |
| 2015 | Faculty Honoree, Anderson Scholars Program
University of Florida. |
| 2011 – 2014 | Research Foundation Professorship
University of Florida. |
| 2003 | Distinguished Service Award
Public Utility Research Center, University of Florida. |
| 2000 | Faculty Honoree, Anderson Scholars Program
University of Florida. |
| 1998 | Professorial Excellence Program Award
University of Florida. |
| 1997 – 2000 | Research Foundation Professorship
University of Florida. |
| 1992 | Research Achievement Award
University of Florida. |
| 1976 | Inducted into the Phi Beta Kappa Society. |

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Southern Economic Journal
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World Bank Economic Review